

DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, N.J., Hydrologic Unit 02040105, just upstream of suspension bridge at Riegelsville, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931). Water-quality samples are collected from the bridge and do not include flow of the Musconetcong River.

DRAINAGE AREA.--6,328 mi².

PERIOD OF RECORD.--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection (NJDEP). Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	
NOV 1999	17...	1100	5050	762	106	13.4	7.7	189	5.5	.068	.052
FEB 2000	07...	1000	5220	761	101	14.0	7.7	181	2.0	.055	.042
MAY 17...	1100	15300	762	90	8.9	7.5	108	16.0	.104	.088	
AUG 29...	1100	4520	761	103	8.9	8.0	222	22.5	.069	.052	
DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	
NOV 1999	17...	65	17.1	5.48	1.4	10.2	45	15.5	<.1	3.3	17.5
FEB 2000	07...	62	16.3	5.32	1.2	11.4	42	18.4	<.1	4.7	16.3
MAY 17...	37	9.85	3.06	.8	6.9	26	10.2	<.1	3.1	10.7	
AUG 29...	75	18.9	6.80	1.4	11.5	56	16.2	<.1	3.1	19.6	
DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	
NOV 1999	17...	.16	.26	.05	<.030	1.1	.99	.827	.007	.056	.067
FEB 2000	07...	.14	.17	<.03	<.030	1.2	1.2	1.07	.006	.053	.064
MAY 17...	.19	.31	.03	<.030	.79	.68	.480	.005	.035	.058	
AUG 29...	.24	.28	.06	<.030	1.2	1.1	.907	.004	.064	.075	
DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (µG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)		
NOV 1999	17...	2.6	.3	E1.6	<1	103	101	21	--	--	
FEB 2000	07...	2.4	.2	E1.0	<1	117	103	18	--	--	
MAY 17...	2.9	.4	<1.0	--	69	63	E8	372	9		
AUG 29...	2.8	.4	<1.0	--	124	115	16	16	1		

DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	E. COLI			ENTERO-			DATE	TIME	E. COLI			ENTERO-		
		COLI- FORM, FECAL, EC BROTH (MPN) (31615)	WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	COLI- FORM, FECAL, EC BROTH (MPN) (31615)			WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)		
AUG 2000								AUG 2000							
02...	0950	16	6900	8400			16...	0930	330	100	40				
09...	0915	1300	<100	30			23...	0905	70	200	60				
							30...	1005	110	<100	20				